□ □ □ □ □

GP-IB□□□□

ZS-6120C□□□□

ZS-6120CP

ZS-6120CH

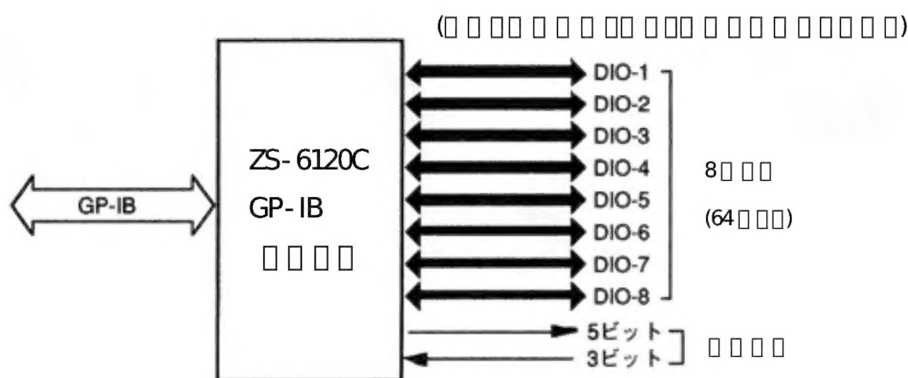


□183-0027□□□□□□□□ 2-13-37
TEL. 042-368-2126 FAX. 042-364-0067
URL http://www.zenisu.co.jp/

TEL 042-368-2126

GP-IB ZS-6120C 8 (64) GP-IB

ZS-6120C GP-IB GP-IB



2

1. ZS-6120CP DC5V
2. ZS-6120CH

[illegible]

1. 1[illegible]
2. [illegible] 8[illegible](BCD[illegible] 16[illegible])[illegible]
3. [illegible] BCD[illegible]HEX[illegible]
4. [illegible](4[illegible])[illegible](8[illegible])[illegible]
5. [illegible]
6. 3[illegible]
7. [illegible]
8. [illegible] 7[illegible]

[illegible]

1. [illegible] DC 5V[illegible] AC 85[illegible]132V[illegible] 2[illegible]
2. [illegible]
3. [illegible]
4. [illegible]

□□

1. □□

1-1 □□□□□□□

ZS-6120CP

□□(□□□□□□□□□):1

□□□□□□□□□□□(□□□ FAS-5001-2101-0BF) :2

□□□□□□ 60cm:1

□□□□□□ :4

□□□□□ CD:1

□□□ :1

ZS-6120CH

□□(□□□□□□□□□):1

□□□□□□ :1

□□□□□□□□□□□(DDK□ 57-30500) :2

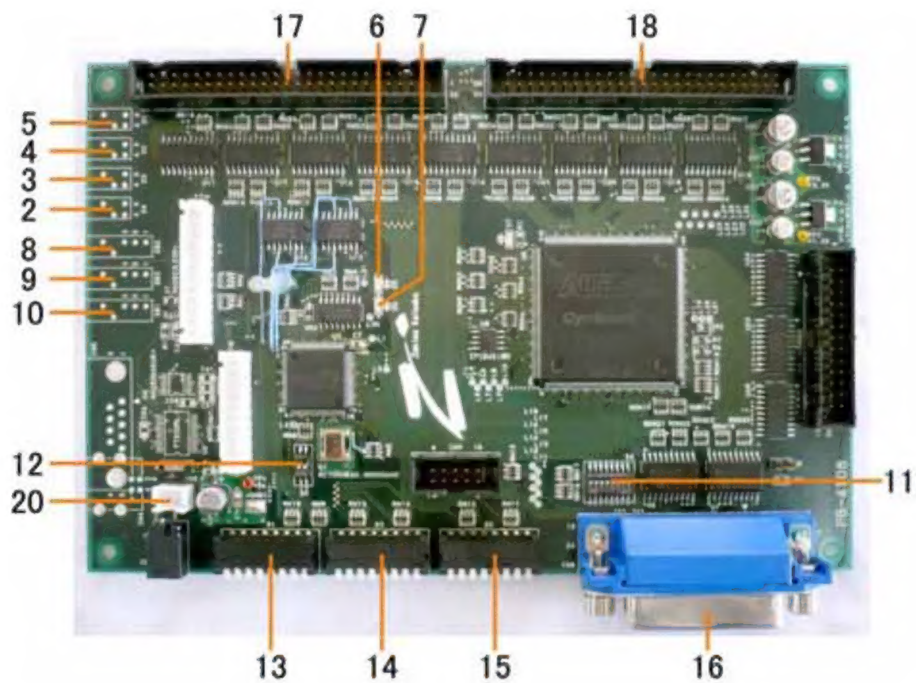
3P-2P AC□□□□□ :1

□□□□□ CD:1

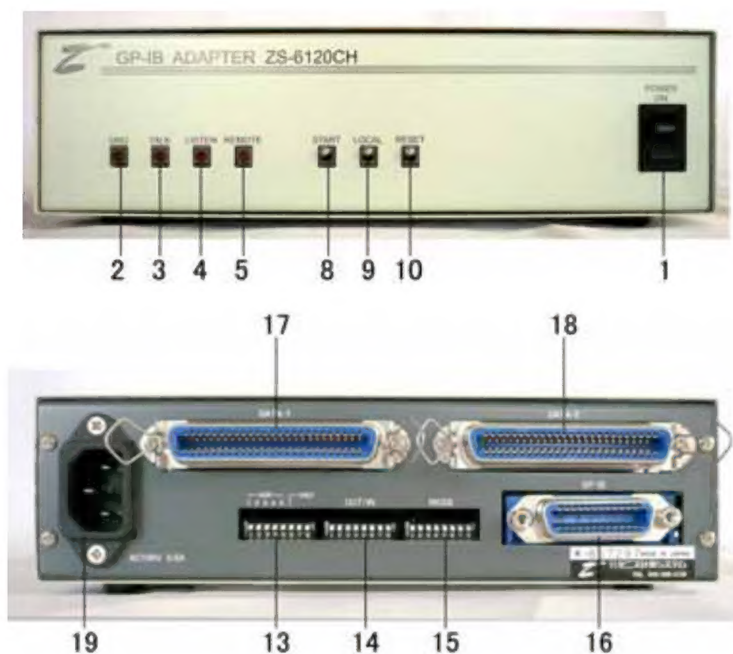
□□□ :1

1-2 □□□□□□□□

ZS-6120CP



ZS-6120CH



1. POWER

ON/OFF

ON

2. SRQ

3. TALK

4. LISTEN

5. REMOTE

6. ERROR 1

GP-IB

7. ERROR 2

8. START

MODE0: SRQ

MODE1: GP-IB

MODE2: SRQ

9. LOCAL

ON

10. RESET

ZS-6120C

"H" "L"

: "L"

: "H"

11. DSW1

12. DSW2

13. ADR

GP-IB

14. OUT/IN

(8)

15. MODE

4/8

16. GP-IB

GP-IB

17. DATA-1

18. DATA-2

19.

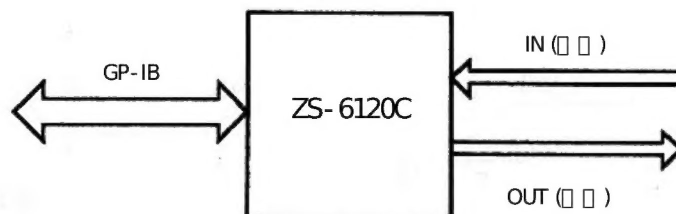
AC85V 132V

20.

DC5V 1.3A

1-3

(IN) (OUT)

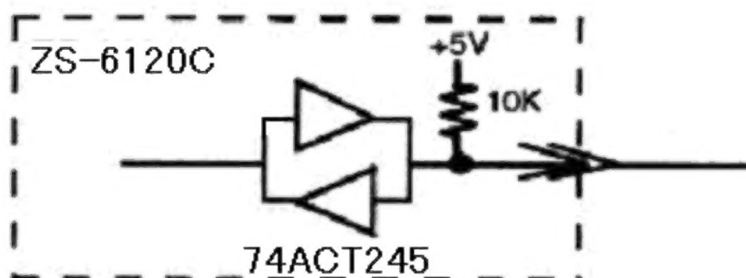


(1) GP-IB : IEEE-Std 488-1978

(2) : SH1 AH1 T5 TE0 L3 LE0 SR1 DT1 RL1 PP0 DC1 C0

(3) : 8 (64)

(4)



TTL 10

TTL 1

(5) (IN) GP-IB

:8

(6) (OUT) GP-IB

:(8) - ( )

(7)

ZS-6120CP DC5V 0.3A

ZS-6120CH AC85 132V 20VA 50/60Hz

(8) 0°C 45°C

(9)

ZS-6120CP 120mm x 180mm x 30mm (H)

ZS-6120CH 215mm(W) x 60mm(H) x 252mm(D)

( )

1-4 [illegible]

1-4-1 ZS-6120CP[illegible]

[illegible]: [illegible] 2[illegible] ([illegible]) [illegible] FAP-5001-1204-0BF

DATA1 ([illegible] J1)

OUT/IN	SIGNAL	PIN		SIGNAL	OUT/IN
	D1	1	2	D1	
	D2	3	4	D2	
	D3	5	6	D3	
OUT/IN	D4	7	8	D4	OUT/IN
①	D5	9	10	D5	②
	D6	11	12	D6	
	D7	13	14	D7	
	D8	15	16	D8	
	D1	17	18	D1	
	D2	19	20	D2	
	D3	21	22	D3	
OUT/IN	D4	23	24	D4	OUT/IN
③	D5	25	26	D5	④
	D6	27	28	D6	
	D7	29	30	D7	
	D8	31	32	D8	
IN	LOCAL	33	34	+V5	OUT
OUT	REMOTE	35	36	+V5	OUT
OUT	IN READY	37	38	+V5	OUT
IN	OUT READY	39	40	+V5	OUT
OUT	OUT STROBE	41	42	GND	
IN	START	43	44	GND	
OUT	TRIGGER	45	46	GND	
OUT	CLEAR	47	48	GND	
	NC	49	50	GND	

DATA2 ([illegible] J2)

OUT/IN	SIGNAL	PIN		SIGNAL	OUT/IN
	D1	1	2	D1	
	D2	3	4	D2	
	D3	5	6	D3	
OUT/IN	D4	7	8	D4	OUT/IN
⑤	D5	9	10	D5	⑥
	D6	11	12	D6	
	D7	13	14	D7	
	D8	15	16	D8	
	D1	17	18	D1	
	D2	19	20	D2	
	D3	21	22	D3	
OUT/IN	D4	23	24	D4	OUT/IN
⑦	D5	25	26	D5	⑧
	D6	27	28	D6	
	D7	29	30	D7	
	D8	31	32	D8	
IN	LOCAL	33	34	+V5	OUT
OUT	REMOTE	35	36	+V5	OUT
OUT	IN READY	37	38	+V5	OUT
IN	OUT READY	39	40	+V5	OUT
OUT	OUT STROBE	41	42	GND	
IN	START	43	44	GND	
OUT	TRIGGER	45	46	GND	
OUT	CLEAR	47	48	GND	
	NC	49	50	GND	

[illegible] ※1 [illegible] DATA1 [illegible] DATA2 [illegible]

※2 OUT/IN [illegible]

※3 OUT/IN [illegible] ○ [illegible]

1-4-2 ZS-6120CH□□□□

□□□□□□: DDK□ 50□□□□□□ 2□ □□ 57-40500

DATA1

OUT/IN	SIGNAL	PIN	PIN	SIGNAL	OUT/IN
OUT/IN ①	D1	1	26	D1	OUT/IN ②
	D2	2	27	D2	
	D3	3	28	D3	
	D4	4	29	D4	
	D5	5	30	D5	
	D6	6	31	D6	
	D7	7	32	D7	
	D8	8	33	D8	
OUT/IN ③	D1	9	34	D1	OUT/IN ④
	D2	10	35	D2	
	D3	11	36	D3	
	D4	12	37	D4	
	D5	13	38	D5	
	D6	14	39	D6	
	D7	15	40	D7	
	D8	16	41	D8	
IN	LOCAL	17	42	+V5	OUT
OUT	REMOTE	18	43	+V5	OUT
OUT	IN READY	19	44	+V5	OUT
IN	OUT READY	20	45	+V5	OUT
OUT	OUT STROBE	21	46	GND	
IN	START	22	47	GND	
OUT	TRIGGER	23	48	GND	
OUT	CLEAR	24	49	GND	
	NC	25	50	GND	

DATA2

OUT/IN	SIGNAL	PIN	PIN	SIGNAL	OUT/IN
OUT/IN ⑤	D1	1	26	D1	OUT/IN ⑥
	D2	2	27	D2	
	D3	3	28	D3	
	D4	4	29	D4	
	D5	5	30	D5	
	D6	6	31	D6	
	D7	7	32	D7	
	D8	8	33	D8	
OUT/IN ⑦	D1	9	34	D1	OUT/IN ⑧
	D2	10	35	D2	
	D3	11	36	D3	
	D4	12	37	D4	
	D5	13	38	D5	
	D6	14	39	D6	
	D7	15	40	D7	
	D8	16	41	D8	
IN	LOCAL	17	42	+V5	OUT
OUT	REMOTE	18	43	+V5	OUT
OUT	IN READY	19	44	+V5	OUT
IN	OUT READY	20	45	+V5	OUT
OUT	OUT STROBE	21	46	GND	
IN	START	22	47	GND	
OUT	TRIGGER	23	48	GND	
OUT	CLEAR	24	49	GND	
	NC	25	50	GND	

□□ ★ □□□□□□□□□□□□□□□□□□□□□□□□+5V□□□□□□□□□□
□□□□□□□ 0.5A□□□□□□□□□□

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※1 □□□□□ DATA1□□DATA2□□□□□□□□□□□□□□□□□□□□□□□

※2 OUT/IN□□□□□□□□□□□□□□□□□□□□□□□□□□□

※3 OUT/IN□□□□○□□□□□□□□□□□□□□□□□□□□□□

1-5 □□□□□

□□ ★□□□□□□□□□□□□□□□□□□□OFF□□□□□□□□

1-5-1 ZS-6120CP

□□ ★□□□□□□□□□DC5V□□□□□□0.3A□□□□□□□□□□□□

1-5-2 ZS-6120CH

□□ ★□□□□□□□□□□AC85□132V□□□□□□□□□□

2.□□□□□□

2-1 □□□□□□□□□□□

2-1-1 □□□□□□□□□□□□

ZS-6120C□□○□□□□□□□□□□□□□□□□□□

No	□□□□	□□□□	□□□□□□	□□□□□
1	□□□□□□(□□□□□→GP-IB)	( )□□□	OUT/IN□□□□ (MODE2≦7□□□)	14
2	□□□□□□(GP-IB→□□□□□)	( )□□□		
3	□□□□□+□□□□□≦8□□□	YES NO		
4	□□□□□□□□□□	□ □	MODE□□□□5	15
5	□□□□□□□□□□	□ □	MODE□□□□6	15
6	□□□□□(4□□□/8□□□□□□)	4/8	MODE□□□□4	15
7	□□□□□□(BCD/HEX)	BCD/HEX	ADR□□□□8	14
8	□□□□	CR LF EOI	MODE□□□□1□3	15
9	□□□□□	0 1 2	MODE□□□□7□8	15
10	□□□□□□□□	ONLY/ADR	ADR□□□□6	14
11	□□□□□□ or □□□□□□	□□□/□□□	ADR□□□□5	14
12	□□□□□□□(ADR□□□□□)	ADR No( )	ADR□□□□1□5	14
13	□□□□□□□□□	□ □	DSW1□□□□1□7	16

2-1-2 □□□□

□□ ★□□□□□□□□□□□□□□ OFF□□□□□□□(ZS-6120CH)

(1)□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□
□□□□□□□□□□□□□□□□□2-1-3□□□□□□□□□□□

(2)□□□□□□□□□□□□□□□□□□□□□ RESET□□□□□□□□□□□□□□□□
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DSW1□DSW2□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

● ZS-6120CP

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● ZS-6120CH

(1)□□□□□□□□□□□□□□□ 4□□□□□□□□□

(2)□□□□□□□□□□□□□□□□□□□□

(3)□□□□□□□□ DSW1□DSW2□□□□□□□□□

※ZS-6120CH□□□□□□□□□□□□□□□□□□□□□□□□□□□□

2-1-3 □□□□□□□□□□□

2-1-3-1 ADR□□□□

	ADR 1	2	3	4	5	ONLY 6	7	8
	1	2	4	8	16	ONLY		BCD
ON	○	○	○					
OFF				○	○	○		○
	0	0	0	0	0	ADR		HEX

□□□□□□

□□□□ No	□□	□□
1	ADR-1	GP-IB□□□□□□□□□□□□※□□□□31□□□□□□
2	ADR-2	□□□□No6□ONLY□□□ADR-5□□□□□□
3	ADR-3	□□□□□□□□
4	ADR-4	ON : □□□□□□
5	ADR-5	OFF : □□□□□□
6	ONLY/ADR	□□□□□□□□□□□□□□□□□□□□□□□□□□□□
7		□□□□□(□□□□□□□□□□)
8	BCD/HEX	□□□□□□□□□□□□□□□MODE□□□□□4/8□□□ □ 8□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□ 3. BCD□HEX□□□□□□□□□□ □□□□

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2-1-3-2 OUT/IN□□□□

□□□□□□□8□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□ ON(□□)□□□□□□□

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※□□□2□□□□□□□□8□□□OFF(□□□□□□)□□□□□□□□

	OUT/IN 1	2	3	4	5	6	7	8
	OUT	OUT	OUT	OUT	OUT	OUT	OUT	OUT
ON					○	○	○	○
OFF	○	○	○	○				
	IN	IN	IN	IN	IN	IN	IN	IN

□□□□□□

2-1-3-3 MODE [illegible]

OUT/IN

	1	2	3	4	5	6	7	8
	CR	LF	EOI	4	[illegible]	[illegible]	1	2
ON			○	○	○	○		
OFF	○	○					○	○
				8	[illegible]	[illegible]	0	0

*[illegible] 1

D8	D7	D6	D5	D4	D3	D2	D1
0	0	1	1	1	0	0	1

[illegible]

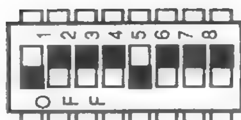
[illegible] No	[illegible]	[illegible]
1 2 3	[illegible] CR [illegible] LF [illegible] EOI	3[illegible] ON/OFF [illegible] 7[illegible] [illegible] GP-IB [illegible] [illegible] [illegible] 0[illegible] 2[illegible] [illegible]) No1[illegible] 2[illegible] ON[illegible] CR,LF[illegible]
4	4/8[illegible]	4[illegible] BCD[illegible] EX[illegible] [illegible] BCD[illegible] HEX[illegible] 19[illegible] BCD,HEX [illegible] 4[illegible] ASCII [illegible] GP-IB [illegible] GP-IB [illegible] BCD [illegible] HEX[illegible] ASCII [illegible] 4[illegible] 8[illegible] GP-IB [illegible] GP-IB [illegible] [illegible]) ASCII [illegible] "9" [illegible] *[illegible] 1 [illegible] [illegible]) [illegible] 8[illegible] EOI [illegible]
5	[illegible] /[illegible]	[illegible]
6	[illegible] /[illegible]	[illegible]
7 8	[illegible] 1 [illegible] 2	2[illegible] ON/OFF [illegible] 3[illegible] [illegible] 2-2 [illegible]
		[illegible] ※[illegible] ON [illegible]

2-1-3-4 DSW1□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□ 2.□□□□□ □□□□□□□□□□□□□□□

□ 3-4□□□□□□□□□□□□□



■□□ SW□□□

DSW-1 □□□□ No	□□□	□□	□□□□	DSW-1□□□□		□□□□ □□
				ON	OFF	
1	OUT READY	IN	□□□	LOW ACTIVE	HIGH ACTIVE	OFF
2	OUT STROBE	OUT	100μs	LOW ACTIVE	HIGH ACTIVE	ON
3	REMOTE	OUT	□□□	LOW ACTIVE	HIGH ACTIVE	ON
4	CLEAR	OUT	100μs	LOW ACTIVE	HIGH ACTIVE	ON
5	IN READY	OUT	□□□	LOW ACTIVE	HIGH ACTIVE	OFF
6	TRIGGER	OUT	100μs	LOW ACTIVE	HIGH ACTIVE	ON
7	START	IN	>30μs	LOW ACTIVE	HIGH ACTIVE	ON
8	□□	-	-	-	-	-

※1 □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

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100μs :□ 100μs□□□□□□□□□

>30μs :30μs□□□□□□□□□□□□

※2 ON/OFF□□□□□□□□□□□□□□□□□□□□□□□□□

2-2 □□□□□□□□

MODE□□□□□□□□□□□7□8□□□□3□□□□□□□□□□□□□□□□
※□□ON□□□□□□□□□□□

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MODE	MODE □□□□		MLA	MTA	ONLY		START □□		OUT
	7	8			LISTEN	TALK	SRQ	IN START	STROBE
0	OFF	OFF	○	○	○	x	○	x	○
1	ON	OFF	○	○	x	○	x	○	○
2	OFF	ON	○	○	x	x	○	x	○

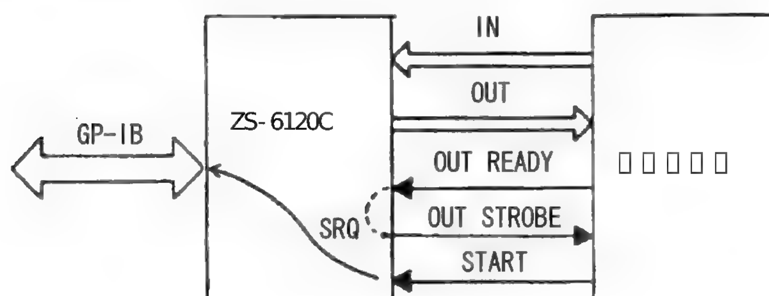
□□ MLA: My Listen Address□□□□□□□□□□□□□□□□□
□□ MTA: My Talk Address□□□□□□□□□□□□□□□□□

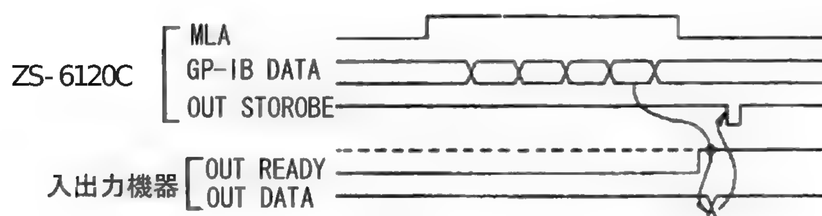
2-2-1 0

(ON OFF)

SRQ

D8	D7	D6	D5	D4	D3	D2	D1
0	RQS	0	0	0	0	0	0





OUT STROBE : LOW ACTIVE

OUT READY : HIGH ACTIVE

2-2-1-1

GP-IB

2-2-1-2

( ) OUT READY

OUT STROBE

3-2 (22)

DSW1 No1 OFF ( ) OUT READY

2-2-2 □□□ 1

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ZS-6120C
GP-IB
IN
IN READY
START
OUT
OUT READY
OUT STROBE
入出力機器

ZS-6120C
MTA
IN READY
□ 2ms
入出力機器
START
IN DATA
VALID

IN READY : HIGH ACTIVE□□□

START : LOW ACTIVE□□□

2-2-2-1 □□□□□

□□□□□□□□□□□□□□□IN READY□□□□□□□□□□□□□□□□□□□
IN READY□□□□□□□□□□□□START□□□□□□□□□□□□□□□□□□□
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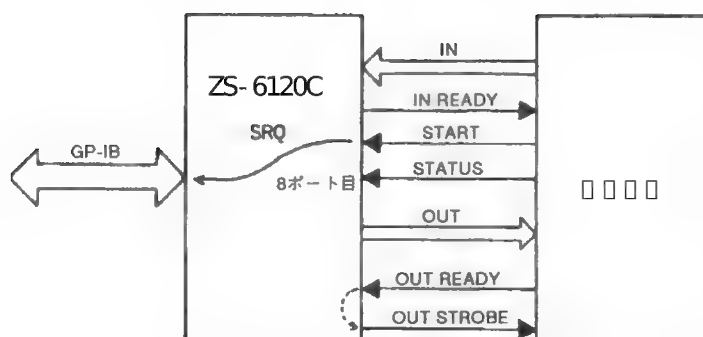
2-2-2-2 □□□□□

□□□ 0□□□□□□(2-2-1-2□)□□□□□□

2-2-3 □□□ 2

SRQ(□□□□)□□□□□□□□□□(□□□□□□□)□□□□□□□□□□□
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GP-IB□□□□□□□□□□□□□□□□□□□□□□SRQ□□□□□□□□□□□□□□□
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□□□□□(S1□S7)□□□□□□□ 8□ D7□□□□□□ 7□□□□□□□□□□□□
D7□□□□ RQS□□□□□□□□□□
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D8	D7	D6	D5	D4	D3	D2	D1
S7	RQS	S6	S5	S4	S3	S2	S1



2-2-3-1 □□□□□

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IN READY□□□□□□□□□□□□□□□□□□□□□□□□□□□

2-2-3-2 □□□□□

□□□ 0□□□□□□(2-2-1-2□)□□□□□□

3.□□□□□□□

3-1 □□□□□□□□□□□□□

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R	□□□□□□□□□□□□□□□□□□□□□□□□	Rpb,
H	□□□□□□□□□□□□□□4□□□(D5□D8)□ □□□□□□□□□□□	Hpm,
L	□□□□□□□□□□□□□□4□□□(D1□D4)□ □□□□□□□□□□□	Lpn,
P	□□□□□□□□□□□□□□4□□□(H)□□□(L)□ □□□□□□□□□□□	Ppmn,
I	□□□□□□□□□□□□□□□□□□□□□□□□□ OUT/IN□□□□□OUT□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□	Ip, p,
N	I□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□OUT/IN□□□□□□□□□□□□□□□	N

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□) S□□□□□R□□□□□□□□□ 2□□□□ 4□□□□□ 5□□□□ 7□□□□□□□□(1)□□□□□(0)□□□□□□□ASCII□□□□□□□□ □□□□□□□□

S□□□□□□□□ S24,57

R□□□□□□□□□ R24,57

3-2 □□□□□□□□

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□□□□	8□□□□□□	4□□□□□□
1	1□□□	1□□□□D5□D8
2	2□□□	1□□□□D1□D4
3	3□□□	2□□□□D5□D8
4	4□□□	2□□□□D1□D4
↓	↓	↓

3-3 BCD□HEX□□□□□

MODE□□□□□No4□4□□□□□□□□□□□□□□ADR□□□□□No8□BCD□HEX□□□
□□□□□□

□□□□□□□□□				GP-IB□□□□(ASCII□□□)	
D8/D4	D7/D3	D6/D2	D5/D1	BCD	HEX
0	0	0	0	0	0
0	0	0	1	1	1
0	0	1	0	2	2
0	0	1	1	3	3
0	1	0	0	4	4
0	1	0	1	5	5
0	1	1	0	6	6
0	1	1	1	7	7
1	O	0	0	8	8
1	0	0	1	9	9
1	0	1	0	*	A
1	0	1	1	/	B
1	1	0	0	.	C
1	1	0	1	E	D
1	1	1	0	-	E
1	1	1	1	+	F

□□ □) 4□□□□□□□BCD□□□□□□□□□□□□□□□□□□□□□
ASCII□□□□ *□□□□□□□□1010□□□□□□□□□□□□□□

3-4 [illegible]

[illegible]

[illegible]	[illegible]	[illegible]	[illegible]
LOCAL	IN	[illegible]	[illegible] 1ms [illegible] LOW [illegible]
REMOTE	OUT	[illegible]	[illegible] ACTIVE
IN READY	OUT	[illegible]	START [illegible] ACTIVE
OUT READY	IN	[illegible]	[illegible] ACTIVE
OUT STROBE	OUT	[illegible]	[illegible]
START	IN	[illegible]	[illegible] (ACTIVE HIGH [illegible]) [illegible]
TREGGER	OUT	[illegible]	GET [illegible]
CLEAR	OUT	[illegible]	DCL [illegible] SDC [illegible]

[illegible] ※ [illegible] 2-1-3-4 DSW1 [illegible]

4 [illegible]

4-1[illegible]

[illegible]

[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]
[illegible] 2 [illegible]	GP-IB [illegible]	[illegible] GP-IB [illegible] No [illegible] ZS-6120C [illegible] No [illegible] [illegible]
[illegible] 1 [illegible]	GP-IB [illegible]	ZS-6120C [illegible] [illegible]
[illegible] [illegible]	[illegible]	[illegible] 1-5 [illegible]
	[illegible]	[illegible]

[illegible] ★[illegible]

4-2 [illegible]

[illegible]

[illegible]

ZS-7200P *[illegible] 1 : 64[illegible]

ZS-7211P *[illegible] 1 : 24[illegible] TTL[illegible]



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